

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work : Drilling of borewells and construction of RO plants comes under Shivakote, Kasagattapura, vaderapura and singanayakanahalli grama panchayathi Limits

Sl. No	Description	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specification No. KBS 2.1 (b)/ 2.3.5 PWD SR 2018-19 It No.2.4 Pg. No.6							
	Basic Rate	449.00						
	Area Weightage 3%	13.47						
	Total	462.47						
	For Columns	6	4	1.20	1.20	1.20	41.47	
	Long walls	6	2	7.13	0.75	1.00	64.17	
	Short walls	6	2	2.33	0.75	1.00	20.97	
						Cum	126.61	462.47
								58554.25
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.PWD SR 2018-19 It No.4.2 Pg. No.13							
	Basic Rate	5194.00						
	Area Weightage 3%	155.82						
	Total	5349.82						
	For Columns	6	4	1.20	1.20	0.15	5.18	
	Long walls	6	2	7.13	0.75	0.15	9.63	
	Short walls	6	2	2.33	0.75	0.15	3.15	
	Flooring	6	1	5.17	2.65	0.15	12.33	
						Cum	30.29	5349.82
								162021.71
3	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 PWD SR 2018-19 It No.5.5 Pg. No.25							
	Basic Rate	4494.00						
	Area Weightage 3%	134.82						
	Total	4628.82						
	1st Footing							
	LW	6	2	6.83	0.60	0.60	29.51	
	SW	6	2	2.63	0.60	0.60	11.36	
						Cum	40.87	4628.82
								189166.91
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 PWD SR 2018-19 It No.5.6 Pg. No.25							
	Basic Rate	4596.00						

Area Weightage 3%			137.88						
Total			4733.88						
Basement									
SSM LW									
SW		6	2	6.83	0.45	0.45	16.60		
		6	2	2.63	0.45	0.45	6.39		
						Cum	22.99	4733.88	108821.00
5 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications. PWD SR 2018-19, It No.34.12.1									
Basic Rate			141.00						
Area Weightage 3%			4.23						
Total			145.23						
Basement									
SSM LW		6	2	6.83		0.45	36.88		
SW		6	2	2.63		0.45	14.20		
						Sqm	51.08	145.23	7419.00
6 Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 PWD SR 2018-19 It No.4.12Pg. No.14									
Basic Rate			6045.00						
Area Weightage 3%			181.35						
Total			6226.35						
For Footing		6	4	1.20	1.20	0.30	10.37		
For column		6	4	0.23	0.30	5.95	9.85		
Plinth Beam		6	2	6.10	0.23	0.30	5.05		
		6	2	2.65	0.23	0.30	2.19		
Roof Beam		6	2	6.10	0.23	0.30	5.05		
		6	2	4.06	0.30	0.23	3.36		
For slab		6	1	6.10	4.06	0.15	22.29		
For lintel		6	2	6.10	0.20	0.15	2.20		
		6	2	2.65	0.20	0.15	0.95		
						Cum	61.32	6226.35	381788.00
7 KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Specification No.KBS 4.6.3 PWD SR 2018-19 It No.4.46.2Pg. No.18									
Basic Rate			70966.00						
Area Weightage 3%			2128.98						
Total			73094.98						
			Nos	Qty	Kg/cum	Kgs			
For footings @ 60 Kg/ Cum		6	1	10.37	60	3732.48			

	For Columns @ 90 Kg/ Cum	6	1	9.85	90	5320.728			
	For Beams @ 90 Kg/ Cum	6	1	3.11	90	1679.4			
	For slabs @ 90 Kg/ Cum	6	1	4.91	90	2651.4			
	For Lintel @ 50 Kg/ Cum	6	1	0.63	50	189			
						13573.008			
						Ton	13.57	73094.98	992118.75
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 PWD SR 2018-19 It No.4.31Pg. No.16								
	Basic Rate			358.00					
	Area Weightage 3%			10.74					
	Total			368.74					
	For Footing								
	For column	6	4	4.80		0.30	34.56		
	Plinth Beam	6	4	1.06		5.95	151.37		
		6	4	6.10		0.30	43.92		
		6	4	4.06		0.30	29.23		
	Lintel	6	2	6.10		0.15	10.98		
		6	2	2.65		0.15	4.77		
	Roof Beam	6	4	6.10		0.30	43.92		
		6	4	4.06		0.30	29.23		
	For slab	6	1	6.10		4.06	148.60		
						Sqm	496.58	368.74	183108.00
9	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 conforming to IS 2185 (Part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications. KBS No.5.4 PWD SR 2018-19 It No.5.26.1Pg. No.27								
	Basic Rate			912.00					
	Area Weightage 3%			27.36					
	Total			939.36					
	LW	6	1	7.46		3.60	161.14		
		6	1	7.46		3.90	174.56		
	S.W	6	1	3.00		3.60	64.80		
		6	1	3.00		3.90	70.20		
	Deduction								
	RS	6	-1	2.60		2.50	-39.00		
	W	6	-1	1.20		1.20	-8.64		
						Sqm	423.06	939.36	397406.00
10	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.PWD SR 2018-19 It No.15.22Pg. No.116								
	Basic Rate			225.00					
	Area Weightage 3%			6.75					
	Total			231.75					
	For ceiling	6	1	5.70	2.65		90.63		
						Sqm	90.63	231.75	21004.00

11	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. PWD SR 2018 19 It No.15.9Pg. No.115								
	Basic Rate		211.00						
	Area Weightage 3%		6.33						
	Total		217.33						
	Inside Plastering								
	LW	6	1	5.70		3.60	123.12		
	S.W	6	1	5.70		3.90	133.38		
		6	1	2.65		3.60	57.24		
	Deduction	6	1	2.65		3.90	62.01		
	RS						0.00		
	W	6	-1	2.60		2.50	-39.00		
		6	-1	1.20		1.20	-8.64		
						Sqm	328.11	217.33	71308.00
12	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .PWD SR 2018-19 It No.15.17Pg. No.116								
	Basic Rate		245.00						
	Area Weightage 3%		7.35						
	Total		252.35						
	External Plastering								
	LW	6	1	6.10		3.60	131.76		
	SW	6	1	6.10		3.90	142.74		
		6	1	3.05		3.60	65.88		
	Steps	6	1	3.05		3.90	71.37		
	Tread								
	Rise	6	1	0.30		4.20	7.56		
	Deduction	6	1	0.15		4.20	3.78		
	RS	6	-1	2.60		2.50	-39.00		
	W	6	-1	1.20		1.20	-8.64		
						Sqm	375.45	252.35	94745.00
13	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.)PWD SR 2018-19 It No.14.43Pg. No.109								
	Basic Rate		1099.00						
	Area Weightage 3%		32.97						
	Total		1131.97						
	Flooring								
		6	1	5.70	2.65		90.63		
						Sqm	90.63	1285.20	116478.00
14	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. PWD SR 2018-19 It No.14.41.2 Pg. No.108								
	Basic Rate		1632.00						

	Area Weightage 3%									
	Total		48.96							
	Dadong		1680.96							
		6	2	5.70		0.30	20.52			
	Deduction	6	2	2.65		0.30	9.54			
		6	-1	2.60		0.30	-4.68			
						Sqm	25.38	1680.96	42663.00	
15	Providing and fixing pull and push type rolling shutters of approved make out of 18 gauge, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. Specification No. KBS 7.10 / 7.12. PWD SR 2018-19 It No.7.5 Pg. No.33									
	Basic Rate									
	Area Weightage 3%		2607.00							
	Total		78.21							
	Rolling Shutter	6	1	2.60	2.10		32.76			
						Sqm	32.76	2685.21	87967.00	
16	Providing and applying two coats with oil bound washable distemper Two Coats of distemper of approved brand and shade on Ceiling & sloped roof including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.PWD SR 2018-19, It No.15.49.1 Pg No.119									
	Basic Rate		110.00							
	Area Weightage 3%		3.30							
	Total		113.30							
	Qty Same as Internal Plastering						328.11			
						Sqm	328.11	113.30	37175.00	
17	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. PWD SR 2018-19 It No.15.53.1 Pg. No.120									
	Basic Rate		89.00							
	Area Weightage 3%		2.67							
	Total		91.67							
	Qty Same as External Plastering						375.45			
						Sqm	375.45	91.67	34418.00	
18	KSRB 7.9: Providing and fixing M.S Grill work for windows and ventilators using M.S flats or M.S fsquare rods or combination of M.S flat and square rods as per approved deslgn, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materail, fixtures, labour and HOM of machinery complete as per specification. Specification No:KBS 7.12 (P.No:34 Items No:7.9 of PWD SR 2018-19)									
	Basic Rate		95.00							
	Area Weightage 3%		2.85							
	Total		97.85							
	W	6	1	1.20		1.20	8.64			
							181.44			

19	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 32mm nominal OD pipes PWD SR 2018-19 It No.13.77 Pg. No.96					kgs	181.44	97.85	17753.90
	Basic Rate		129.00						
	Area Weightage 3%		3.87						
	Total		132.87						
		6	1	30.00			180.00		
						Rmt	180.00	132.87	23917.00
20	Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitred and suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame thoroughly cleaned, free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved								
	Basic Rate		3364.00						
	Area Weightage 3%		100.92						
	Total		3464.92						
		6	1	2.60	2.70		42.12		
		6	1	1.20	1.20		8.64		
						Sqm	50.76	3464.92	175879.00

DESIGN, SUPPLY, INSTALLATION, COMMISSIONING OF RO PLANT 2000LTR PER HOUR CAPACITY WITH RO PLANT-2000LPH WITH COIN BOOTH

1. Raw Water pump Qty officer-one number type Mon Block centrifugal operation flow rate - 4M3/hr operation pressure-4.0kg/cm2 type of drive- phase squirrel cage induction motor make- CRI/TEXMO 2. Multigrated sand filter (MSF) Qty offere-one number Type -Top and bottom flow size 15"x65" operation floe rate-4M3/hr Operation pressure-4.0kg/cm2 Type of Media-Dual-Sand and anthracite Supporting media-Gravels and Sillex MOC of shell-FRP Make PARTNER/Aventura 3. Activated Carbon filter (ACF)Qty Offere -one Number Type Top and bottom flow size 16"x65" operation flow rate-4M3/hr operation pressure-3.5kg/cm2 type of Media Activated carbon flakes Type of resin-150kgs MOC of shell-FRP make -PARTNER/Aventura JODINE VALUE-500value 4. Micro Cartridge Filter Nos 5. Antiscalent Dosing UntilQty Offere -one number 6. Multistage Centrifugal pumo high pressure pump Qty Offe-one nos Type-Multistage Centrifugal Operation flow rate- 4M3/hr operation pressure-10 to 15kg/cm2 material of construction -SS 316 Make pump- Cri/Kirloskar/unique Type of drive motor-three phase,squird cage indicator KWRPM- 2.75/2000(Approx) Make of motor cri/kirloskar 7. R.O Membrane skid consists of (SS 304) a. R.O Membrane b. pressure tubes number of streams offered one type of membrane-spiral wound TFC brackish water membrane-imported make HYDRONICS/OE marlin 8040 operating pressure -10 to 15kg/cm2 material of construction polumade thin film composite material of housing-FRP 8. Mineral Dosing system (product water storage tank) Qty Required no-s material of construction- SS 304 Capacity-1000Ltrs 9. Micron Cartridge module 2/1/0.5 Micron nos of cartridges-two nos type disposable Cartridge operating flow rate-3.00kg/cm2 microne Rating-2/1/0.5Micron MOC OF HOUSING Fiber MOC of cartridge-polypropylene 10. System control pane 11. RO Reject Line consist og 15. a. Flow Meters 16. B. Pressure monitors 17. c. Online conductivity/ph meter 18. d. Sampling tap 19. e. Operation switches 20. Basis of design 21. Raw water characteristics 22. PH 6 to 8 23. Total suspended solids-nil 24. Total dissolved solids-2000 25. Iron AS Fe<1 26. Total Hardness as Caco3-1000 27. Total Alkalinity as CaCo3-250 28. Total Alkalinity as Caco3-250 28. Alkalinity as CaCo3-nill. 29. Chloride as CaCo3-<200. 30. Fluoride-<1 31. Sulphate as CaCo3-25.	6						6.00									
ELECTRICAL WORKS							Each	6.00	975,814.80	5,854,888.80						
Open Conduit System																
supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size benda. Junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using havey gauge saddles at an intereval of 70mm using NF screws (ELE SR 2019-20 Page-2, Item-1.1.2)																
25mm dia 2mm thick Concealed Conduit System	6	28				mtr	168	65.00	10920.00							
Suppling... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc..., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.(ELE SR 2019-20 Page-2, Item-1.2.2)																
25mm dia 2mm thick	6	28				mtr	168.00	53.00	8904.00							
Groove cutting in the wall supplng.. Dia 2mm/2.5mm thick heavy gauge PVC Conduit pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary.(ELE SR 2019-20 Page-2, Item-1.3.2)																
25mm dia 2mm thick	6	23				mtr	138.00	54.00	7452.00							

25	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc... (ELE SR 2019-20 Page-2, Item-1.4.5)											
	200x90x65mm	6	3				Each	18.00	111.00	1998.00		
26	supplying and fixing PVC/ Metal conduit accessories. (3/5) (ELE SR 2019-20 Page-3, Item-1.5.3)											
	a) 32mm deep junction box	6	1				Each	6.00	60.00	360.00		
27	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complet. (ELE SR 2019-20 Page-3, Item-1.6.1-1.6.8)											
	12"x12"x3" (330x300x76mm)	6	10				mtr	60.00	102.00	6120.00		
28	Supplying and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The other end of the wires shall be terminated with sufficient loose length in a wood / PVC round block. complete for each outlet. (ELE SR 2019-20 Page-5, Item-2.1.2)											
	Medium point above 3Mtr up to 6 mtr from tapping point to out let via switch						Each	12	275.00	3300.00		
29	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos, of machines screws, bolts nuts etc., complete on the existing metal/PVC box, ELE SR 2019-20 Page-9, Item-3.5.3)											
	Group-A											
	Mouldule	6	5				No	30	175.00	5250.00		
30	Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box. ELE SR 2019-20 Page-10, Item-3.7)											
	Group 'A'	6	2				Each	12	680.00	8160.00		
31	Wiring for lighting/power circuit using one of pvc insulated 1100v grade, multistrand copper conductor singal core cable in open or concealed system of wiring. ELE SR 2019-20 Page-5, Item-2.3.1-2.3.7)											
	1. Group-A											
	a) 1.5sqmm		6	86			mtr	516	20.50	10578.00		
	b) 6 sqmm		6	79			mtr	474	70.00	33180.00		
32	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm... Etc as required. ELE SR 2019-20 Page-3, Item-1.8.1)											
	20mm	6	15				Each	90.00	22.00	1980.00		
33	Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated completely. ELE SR 2019-20 Page-3, Item-1.9.1)											
	20mm	6	16				Each	96.00	22.00	2112.00		
34	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws.. ELE SR 2019-20 Page-10, Item-3.10.2)											
	110mm	6	16				Each	96.00	11.00	1056.00		

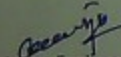
35	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.99, I.No. 13.86.2 of PWD SR 2018-19)									
	Basic Rate									
	Area Weightage 3%		235.00							
	Total		7.05							
			242.05							
			6	55		Rmt	330	242.05		79876.50
36	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Verner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging technical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED.SR 2019-20									
	Basic Rate		3768.0							
			11							
							11.00	3768.00		41448.00
37	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2019-20									
	Basic Rate		347.00							
	0 to 50 m			11	50.00					
	Basic Rate		442.00					550.00	347.00	190850.00
	50 to 100 m			11	50.00					
	Basic Rate		456.00					550.00	442.00	243100.00
	100 to 150 m			11	50.00					
	Basic Rate		536.00					550.00	456.00	250800.00
	150 to 200 m			11	50.00					
	Basic Rate		634.00					550.00	536.00	294800.00
	200 to 250 m			11	50.00					
	Basic Rate		700.00					550.00	634.00	348700.00
	250 to 300 m			11	50.00					
								550.00	700.00	385000.00
38	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance skelp / stripes in random length of 4 to 7 mts both ends threaded conforming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (Including of all taxes) SE PRED III NO 84									
			Rmtr	11	50.00					
								550.00	1325.00	728750.00
39	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) Including cost of all materials, labour charges, HQM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (P. No.92/ I. No. 13.15 KPWD SR 2018-19)									
	Basic rate		388.00							
	Area Weightage 3%		11.64							
	Total		399.64							
			mtr	11	285.00					
								3135.00	399.64	1252871.40

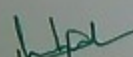
40	Providing 250mm dia PVC Pipe BWSSB SR 17-18 PNO 133 SL NO 1.11	Rmtr								
41	Providing 175mm dia ms casing cap page no III It no 85 pred 12-13 sr	11	12.00				132.00	1353.00		178596.00
		no	11							
42	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. P. No. 7/ I No. (2.6.4) 3cx 6.0 Sqm KPWD Electrical SR 2019-20						11.00	100.00		1100.00
43	Atalanta,Suguna,CRI KIRLOSKER AND other equipment pumps 15.00 HP/11KW(30 Stage)P. No. XLII I No.43) (K.P.W.D SR 2018-19)	Mtr	11	580.00			6380.00	205.00		1307900.00
		Nos	11							
44	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P No.40, I No. 6.1) KPWD Electrical SR 2019-20						11.00	63498.00		698478.00
45	Supplying and Fixing 20"x20"x2.5"polished wood board made up not less than 15mm thick plank with front plank one end providing for olding at other end fixing the same to the valve using tapered bolts and nuts, (P No. 24 No.5.6.6 KPWD Electrical SR 2019-20)	NO	11				11.00	2999.70		32996.70
		Each	11							
46	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC Insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp (2CX 105qmm.mm wire armoured) confirming IS 3975:1990(no.of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.A.4 Core 165qmm.P No.40/ I No.6.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2019-20						11.00	292.00		3212.00
47	Labour charges for laying of 1.1 K.V class UG cable, In existing trench GI Pipe / stoneware pipe /on wall/on poles as required In existing trencg/duct 6 Sqmm to 16 Sqmm)P No. 41 / I No. 6.5.1 KPWD Electrical SR 2019-20	Mtr	11	30.00			330.00	150.00		49500.00
48	Supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps (P No. 44 / I No. 5.7.3 KPWD Electrical SR 2019-20)	Mtr	11	25.00			275.00	11.88		3267.00
		Each	11							
49	Providing and fixing in position 50mm nominal bore non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page No.95 Item No. 13.62 / PWD SR 2018-19)						11.00	227.00		2497.00
	Basic rate	1269.00								
	Area Weightage 3%	38.07								
	Total	1307.07								
		Nos	11							
50	Supplying and fixing manlature circuit breakers on existing MCB Distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN (P. No. 27 I No.5.17.9) KPWD Electrical SR 2019-20						11.00	1307.07		14377.77
		Each	11							
							11.00	2397.00		26367.00

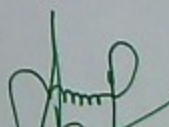
51	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (P. No.6/ I No 2.3 PWD SR 2018-19)									
	Basic rate	299.00								
	Area Weightage 3%	8.97								
	Total	307.97								
	Cum	11	355.00	0.60	0.70	1640.10	307.97			505101.60
52	Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and perfect linking at joints testing and commissioning including loading and un loading at both destinations and cuts of pipes wherever necessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approval type with all labour with all lead and lift including encasing the pipe around to adepth of not less then 15cms with soft gravel or selected earth available from the excavation etc., completed and giving necessary hydraulic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No.133 I No.1.4 BWSB SR 2018-19) 63mm outer dia, 6kg/sqcm & class 5									
	Mtr	11	355.00				3905.00	122.00		476410.00
53	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. includingcost of all labour complete as per specifications. P. No. 7.1/ I No. (2.11) KPWD SR 2018-19									
	Basic rate	121.00								
	Area Weightage 3%	3.63								
	Total	124.63								
	Cum	11	355.00	0.60	0.70	1640.10	124.63			204405.66
54	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 12.5 HP upto 25 HP (P No. 24 / I No.5.2.2 KPWD Electrical SR 2019-20)									
	Nos	11					11.00	8000.00		88000.00
56	BESCOM Deposit Charges	Nos	17				17.00	14000.00		238000.00
	Total Construction Cost									16806375.00
	Towards GST 12%									2016765.00
	Tender premium 5%									840318.75
	DPR and PMC Charges 2%									335000.00
	Sub Total									19998458.75
	Utility Shifting, Miscellaneous and Rounding off									1,541.25
	GRAND TOTAL									20000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR, Bangalore circle for year 2018-2019, Issue rates dated 21-10-2019, PRED, BWSB, KPWD Electrical SR for year 2018-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer,


Executive Engineer,
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains and construction of Concrete roads at Avalahalli village Limits.

Est Cost: 100.00 Lakhs

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1, P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 3%	3.90							
	Loading and Unloading & Lead	82.60							
	Total	216.50							
	CC Drain	Cum							
	Avalahalli								
	Circle to Dead Rd, RHS		1	180.00	1.00	1.00	180.00		
	Akkannnappa house Rd		1	93.00	1.00	1.00	93.00		
	Madhusudhan House Rd		1	50.00	1.00	1.00	50.00		
	Circle to Temple LHS		1	80.00	1.10	1.00	88.00		
	Munihanumayya house Rd		1	42.00	1.00	1.00	42.00		
	Hanumegowda House Rd		1	175.00	1.00	1.00	175.00		
	Reethika Farm		1	110.00	2.20	1.20	290.40		
	Rain Water Harvesting pits		5	0.31		1.80	2.79		
	Culvert		5	5.00	1.40	1.00	35.00		
							956.19	216.50	207015.14
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	1901.00							
	b) 20mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	2651.00							
	c) Coarse sand.	Cum	5	0.31		0.30	0.47	2651	1,232.72
	Data rate	2651.00							
	d) Fine Sand	Cum	5	0.31		0.20	0.31	2651	821.81
	Data rate	1901.00							
	e) 12.5mm chips	Cum	5	0.31		0.30	0.47	1901	883.97

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains and construction of Concrete roads at Avalahalli village Limits.

Est Cost: 100.00 Lakhs

SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
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Civil Work

1 KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1, P No-141), 10km lead = $(1.28 \times 2 \times 10) + 57$.

	Basic rate	130.00							
	Area Weightage 3%	3.90							
	Loading and Unloading & Lead	82.60							
	Total	216.50							
	Avalahalli	Cum							
	Circle to Dead Rd, RHS		1	180.00	1.00	1.00	180.00		
	Akkannappa house Rd		1	93.00	1.00	1.00	93.00		
	Madhusudhan House Rd		1	50.00	1.00	1.00	50.00		
	Circle to Temple LHS		1	80.00	1.10	1.00	88.00		
	Munihanumayya house Rd		1	42.00	1.00	1.00	42.00		
	Hanumegowda House Rd		1	175.00	1.00	1.00	175.00		
	Reethika Farm		1	110.00	2.20	1.20	290.40		
	Rain Water Harvesting pits		5	0.31		1.80	2.79		
	Culvert		5	5.00	1.40	1.00	35.00		
							956.19	216.50	207015.14

2 Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate

	Data rate	1901.00							
a) 40mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62	
b) 20mm Jelly	Data rate	1901.00							
	Cum	5	0.31		0.40	0.62	1901	1,178.62	
c) Coarse sand.	Data rate	2651.00							
	Cum	5	0.31		0.30	0.47	2651	1,232.72	
d) Fine Sand	Data rate	1901.00							
	Cum	5	0.31		0.20	0.31	2651	821.81	
e) 12.5mm chips									
	Cum	5	0.31		0.30	0.47	1901	883.97	

SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		5	1.80			9.00		
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate						9.00	10822.32	97,400.88
	Data rate	71.03							
	Sqm	5	0.31				1.55	71.03	110.10
5	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 (P.No-7, I No-2.15)								
	Basic rate	2429.00							
	Area Weightage 3%	72.87							
	Total	2501.87							
	Cum								
	CC Drain								
	Avalahalli								
	Reethika Farm		1	110.00	2.20	0.20	48.40		
							48.40	2501.87	121090.51
6	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13, I No-4.2, KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	Cum								
	CC Drain								
	Avalahalli								
	Circle to Dead Rd, RHS		1	180.00	1.00	0.15	27.00		
	Akkannnappa house Rd		1	93.00	1.00	0.15	13.95		
	Madhusudhan House Rd		1	50.00	1.00	0.15	7.50		
	Circle to Temple LHS		1	80.00	1.10	0.15	13.20		
	Munihanumayya house Rd		1	42.00	1.00	0.15	6.30		
	Hanumegowda House Rd		1	175.00	1.00	0.15	26.25		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							135.75	5349.82	726238.07
7	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 3%	200.10							
	Total	6870.10							
	CC Drain Raft	Cum							
	Avalahalli								
	Circle to Dead Rd, RHS		1	180.00	0.75	0.15	20.25		
	Akkannnappa house Rd		1	93.00	0.75	0.15	10.46		
	Madhusudhan House Rd		1	50.00	0.75	0.15	5.63		
	Circle to Temple LHS		1	80.00	0.90	0.15	10.80		
	Munihanumayya house Rd		1	42.00	0.75	0.15	4.73		
	Hanumegowda House Rd		1	175.00	0.75	0.15	19.69		
	CC Drain Wall								
	Avalahalli								
	Circle to Dead Rd, RHS		2	180.00	0.15	0.60	32.40		
	Akkannnappa house Rd		2	93.00	0.15	0.60	16.74		
	Madhusudhan House Rd		2	50.00	0.15	0.60	9.00		
	Circle to Temple LHS		2	80.00	0.15	0.60	14.40		
	Munihanumayya house Rd		2	42.00	0.15	0.60	7.56		
	Hanumegowda House Rd		2	175.00	0.15	0.60	31.50		
							183.15		
	Reethika Farm Raft		1	110.00	2.00	0.20	44.00		
	Reethika Farm Wall		2	110.00	0.20	1.50	66.00		
	Reethika Farm Slab		1	110.00	2.00	0.20	44.00		
	Culvert Raft		5	5.00	1.20	0.20	6.00		
	Culvert Wall		10	5.00	0.23	0.60	6.90		
							166.90		
							350.05	6870.10	2404878.51
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	183.15	60.00		10989.00		
	Consider 90kg/Cum for Drain	Tn	1	166.90	90.00		15021.00		
							26010.00		
							26.01	70279.99	1827982.54

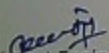
SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
9	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272 , I No-37.66 of PWD BCSR 2018-19),								
	Basic rate	1081.00							
	Area Weightage 3%	32.43							
	Total	1113.43							
	CC Drain Top Covering Slab	m							
	Avalahalli								
	Circle to Dead Rd, RHS		1	180.00			180.00		
	Akkannnappa house Rd		1	93.00			93.00		
	Madhusudhan House Rd		1	50.00			50.00		
	Munihanumayya house Rd		1	42.00			42.00		
	Hanumegowda House Rd		1	175.00			175.00		
							540.00	1113.43	601252.20
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Avalahalli								
	Circle to Temple LHS		1	80.00	0.90		72.00		
							72.00	2337.00	168264.00
11	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	Sqm	5	5.00	1.20		30.00		
							30.00	5418.00	162540.00
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unlodng & Lead	25.60							
	Total	67.83							
	Cum								
	Avalahalli								
	Akkannnappa house Rd		1	70.00	2.80	0.30	58.80		
	Front of Ranga Mandira		1	27.00	23.00	0.30	186.30		
	Arkeshwara Temple Platform		1	10.00	10.00	0.30	30.00		
	Hanumegowda House Rd		1	175.00	3.50	0.30	183.75		

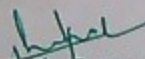
SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 3%	0.18							
	Total	6.18							
		Sqm							
	Avalahalli								
	Akkannnappa house Rd		1	70.00	2.80		196.00		
	Front of Ranga Mandira		1	27.00	23.00		621.00		
	Arkeshwara Temple Platform		1	10.00	10.00		100.00		
	Hanumegowda House Rd		1	175.00	3.50		612.50		
							1529.50	6.18	9,452.31
14	KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1,P No-174)								
	Basic rate	3585.00							
	Area Weightage 3%	107.55							
	Total	3692.55							
		Cum							
	Avalahalli								
	Akkannnappa house Rd		1	70.00	2.80	0.15	29.40		
	Front of Ranga Mandira		1	27.00	23.00	0.15	93.15		
	Arkeshwara Temple Platform		1	10.00	10.00	0.15	15.00		
	Hanumegowda House Rd		1	175.00	3.50	0.15	91.88		
							229.43	3692.55	847163.28
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to (P.No-176,I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 3%	147.48							

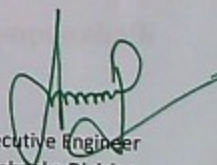
SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Avalahalli								
	Akkannnappa house Rd		1	70.00	2.80	0.15	29.40		
	Front of Ranga Mandira		1	27.00	23.00	0.15	93.15		
	Arkeshwara Temple Platform		1	10.00	10.00	0.15	15.00		
	Hanumegowda House Rd		1	175.00	3.50	0.15	91.88		
							229.43	5063.48	1161688.90
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
	Sqm								
	Avalahalli								
	Akkannnappa house Rd		2	70.00	0.10		14.00		
	Front of Ranga Mandira		2	27.00	0.10		5.40		
	Arkeshwara Temple Platform		2	10.00	0.10		2.00		
	Hanumegowda House Rd		2	175.00	0.10		35.00		
							56.40	441.87	24,921.47
	Total Construction Cost								8396417.45
	Towards GST 12%								1007570.09
	Tender premiun 5%								419820.87
	DPR and PMC Charges 2%								176000.00
	Sub Total								9999808.42
	Utility Shifting,Miscellaneous and Rounding off								191.58
	GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore

SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Deduct 12% GST	1298.68							
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		5	1.80			9.00		
							9.00	10822.32	97,400.88
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	5	0.31			1.55	71.03	110.10
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	CC Drain	Cum							
	Kempanahalli								
	Narayanappa house Rd		1	86.00	1.00	0.15	12.90		
	Mn Rd		1	70.00	1.00	0.15	10.50		
	Shivashankar house Rd		1	90.00	1.00	0.15	13.50		
	Government School Rd		1	102.00	1.10	0.15	16.83		
	Temple Katte to Lake		1	250.00	1.60	0.15	60.00		
	Katte RCC Wall		1	10.00	0.60	0.15	0.90		
			1	18.00	0.60	0.15	1.62		
	Temple Katte		1	10.00	9.00	0.15	13.50		
	Culvert		4	6.50	1.40	0.15	5.46		
							135.21	5349.82	723349.16
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 3%	200.10							
	Total	6870.10							
	CC Drain Raft	Cum							
	Kempanahalli								
	Narayanappa house Rd		1	86.00	0.75	0.15	9.68		
	Mn Rd		1	70.00	0.75	0.15	7.88		
	Shivashankar house Rd		1	90.00	0.75	0.15	10.13		
	Government School Rd		1	102.00	0.90	0.15	13.77		
	Temple Katte to Lake		1	250.00	1.60	0.20	80.00		
	CC Drain Wall								

SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Government School Rd		2	102.00	0.15	0.60	18.36		
	Temple Katte to Lake		2	250.00	0.20	1.60	160.00		
	Temple Katte to Lake Slab		1	250.00	1.60	0.20	80.00		
							424.09		
	Culvert Raft		4	6.50	1.20	0.20	6.24		
	Culvert Wall		8	6.50	0.23	0.60	7.18		
							13.42		
	Katte RCC Wall		1	10.00	0.30	1.00	3.00		
			1	18.00	0.30	1.00	5.40		
							445.90	6870.10	3063384.46
7	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	424.09	60.00		25445.10		
	Consider 90kg/Cum for Drain	Tn	1	13.42	90.00		1207.44		
							26652.54		
							26.65	70279.99	1873140.24
8	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272 ,I No-37.66 of PWD BCSR 2018-19),								
	Basic rate	1081.00							
	Area Weightage 3%	32.43							
	Total	1113.43							
	CC Drain Top Covering Slab	m							
	Kempanahalli								
	Narayanappa house Rd		1	86.00			86.00		
	Mn Rd		1	70.00			70.00		
	Shivashankar house Rd		1	90.00			90.00		
							246.00	1113.43	273903.78
9	Providing and laying flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per specifications. -do- using black granite/ Multy Red / Ruby Red / Black / Hassan Green / River Pink Granite of width not less than 900mm (P.No-110 ,I No-14.47.2 of PWD BCSR 2018-19),								
	Basic rate	2240.00							
	Area Weightage 3%	67.20							
	Total	2307.20							

Description of Item

Unit

No

Length

Width

Depth

Quantity

Rate

Amount

Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, labour, curing etc., complete as per specification. (P.No-110, I No-14.47.2 of PWD BCSR 2018-19).

Basic rate 3542.00

Area Weightage 3% 106.26

Total 3648.26

Sqm

Kempanahalli

Temple Katte

1

19.00

0.60

11.40

11.40

3648.26

41,590.16

Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work, cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (Data Rate)

Data rate 2337.00

CC Drain Top Covering Slab

Sqm

Kempanahalli

Government School Rd

1

102.00

0.90

91.80

91.80

2337.00

214536.60

Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. As per Engineer incharge. (Data Rate)

Data rate 5418.00

Culverts

Sqm

4

6.50

1.20

31.20

31.20

5418.00

169041.60

KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification No.301 Loading and unloading with 10km lead = (I No-19.14, P No-143) 10km lead = (1.28x2x10)

Basic rate 41.00

Area Weightage 3% 1.23

Loading and Unloading & Lead 25.60

Total 67.83

Cum

Kempanahalli

Narayanappa house Rd

Shivashankar house Rd

Malikarjuna house Rd

1

37.00

3.80

0.30

42.18

1

90.00

5.00

0.30

135.00

1

30.00

5.00

0.30

45.00

222.18

67.83

15,070.47

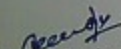
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means using pneumatic locations

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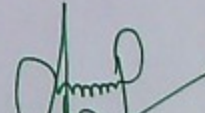
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	4916.00							
	Area Weightage 3%	147.48							
	Total	5063.48							
	Cum								
	Kempanahalli								
	Narayanappa house Rd		1	37.00	3.80	0.15	21.09		
	Mn Rd		1	70.00	4.50	0.15	47.25		
	Shivashankar house Rd		1	90.00	5.00	0.15	67.50		
	Mallikarjuna house Rd		1	30.00	5.00	0.15	22.50		
							158.34	5063.48	801751.42
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
	Sqm								
	Kempanahalli								
	Narayanappa house Rd		2	37.00	0.10		7.40		
	Mn Rd		2	70.00	0.10		14.00		
	Shivashankar house Rd		2	90.00	0.10		18.00		
	Mallikarjuna house Rd		2	30.00	0.10		6.00		
							45.40	441.87	20,060.90
	Total Construction Cost								8410858.48
	Towards GST 12%								1009303.02
	Tender premium 5%								420542.92
	DPR and PMC Charges 2%								159000.00
	Sub Total								9999704.42
	Utility Shifting,Miscellaneous and Rounding off								295.58
	GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, Issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains and construction of Concrete roads at Mylapanahalli village Limits.

Est Cost: 100.00 Lakhs

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 3%	3.90							
	Loading and Unloading & Lead	82.60							
	Total	216.50							
	Cum								
	CC Drain								
	Mylapanahalli								
	Gangadhar house Rd		1	160.00	1.10	0.90	158.40		
	Vijayamma house Rd		1	75.00	1.10	0.90	74.25		
	Ramchandrappa house Rd		2	142.00	1.10	0.90	281.16		
	Dasegowda house Rd		1	88.00	1.10	0.90	87.12		
	Sanjeevappa house Rd		1	40.00	1.10	0.90	39.60		
	Munaswamy house Rd		1	72.00	1.10	0.90	71.28		
	Cross Road		1	60.00	1.10	0.90	59.40		
	Rain Water Harvesting pits		7	0.31		1.80	3.91		
	Culvert		3	5.00	1.40	0.90	18.90		
							794.02	216.50	171904.46
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	7	0.31		0.40	0.87	1901	1,650.07
	Data rate	1901.00							
	b) 20mm Jelly	Cum	7	0.31		0.40	0.87	1901	1,650.07
	Data rate	2651.00							
	c) Coarse sand.	Cum	7	0.31		0.30	0.65	2651	1,725.80
	Data rate	2651.00							
	d) Fine Sand	Cum	7	0.31		0.20	0.43	2651	1,150.53
	Data rate	1901.00							
	e) 12.5mm chips	Cum	7	0.31		0.30	0.65	1901	1,237.55

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		7	1.80			12.60		
							12.60	10822.32	136361.23
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
	Sqm	7	0.31				2.17	71.03	154.14
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	CC Drain	Cum							
	Mylapanahalli								
	Gangadhar house Rd		1	160.00	1.10	0.15	26.40		
	Vijayamma house Rd		1	75.00	1.10	0.15	12.38		
	Ramchandrappa house Rd		2	142.00	1.10	0.15	46.86		
	Dasegowda house Rd		1	88.00	1.10	0.15	14.52		
	Sanjeevappa house Rd		1	40.00	1.10	0.15	6.60		
	Munaswamy house Rd		1	72.00	1.10	0.15	11.88		
	Cross Road		1	60.00	1.10	0.15	9.90		
	Culvert		3	5.00	1.40	0.15	3.15		
							131.69	5349.82	704491.05
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	CC Drain Raft	Cum							
	Mylapanaahalli								
	Gangadhar house Rd		1	160.00	0.90	0.15	21.60		
	Vijayamma house Rd		1	75.00	0.90	0.15	10.13		
	Ramchandrapappa house Rd		2	142.00	0.90	0.15	38.34		
	Dasegowda house Rd		1	88.00	0.90	0.15	11.88		
	Sanjeevappa house Rd		1	40.00	0.90	0.15	5.40		
	Munaswamy house Rd		1	72.00	0.90	0.15	9.72		
	Cross Road		1	60.00	0.90	0.15	8.10		
	CC Drain Wall								
	Mylapanaahalli								
	Gangadhar house Rd		2	160.00	0.15	0.60	28.80		
	Vijayamma house Rd		2	75.00	0.15	0.60	13.50		
	Ramchandrapappa house Rd		4	142.00	0.15	0.60	51.12		
	Dasegowda house Rd		2	88.00	0.15	0.60	15.84		
	Sanjeevappa house Rd		2	40.00	0.15	0.60	7.20		
	Munaswamy house Rd		2	72.00	0.15	0.60	12.96		
	Cross Road		2	60.00	0.15	0.60	10.80		
							245.39		
	Culvert Raft		3	5.00	1.20	0.20	3.60		
	Culvert Wall		6	5.00	0.23	0.60	4.14		
							7.74		
							253.13	6870.10	1738994.06
7	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	245.39	60.00		14723.10		
	Consider 90kg/Cum for Drain	Tn	1	7.74	90.00		696.60		
							15419.70		
							15.42	70279.99	1083696.36
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Mylapanaahalli								
	Gangadhar house Rd		1	160.00	0.90		144.00		
	Vijayamma house Rd		1	75.00	0.90		67.50		
	Ramchandrapappa house Rd		2	142.00	0.90		255.60		
	Dasegowda house Rd		1	88.00	0.90		79.20		
	Sanjeevappa house Rd		1	40.00	0.90		36.00		
	Munaswamy house Rd		1	72.00	0.90		64.80		
			1	60.00	0.90		54.00		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	Sqm	3	5.00	1.20		18.00		
							18.00	5418.00	97,524.00
10	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unloading & Lead	25.60							
	Total	67.83							
		Cum							
	Mylapanahalli								
	Vijayamma house Rd		1	75.00	3.80	0.30	85.50		
	Vijay Kumar house Rd		1	90.00	5.00	0.30	135.00		
	Ariyamma house Rd, Anganwadi		1	125.00	4.50	0.30	168.75		
	Rathnamma house Rd		1	30.00	2.50	0.30	22.50		
	Ramchandrapappa house Rd		1	142.00	5.00	0.30	213.00		
							624.75	67.83	42,376.79
11	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 3%	0.18							
	Total	6.18							
		Sqm							
	Mylapanahalli								
	Vijayamma house Rd		1	75.00	3.80		285.00		
	Vijay Kumar house Rd		1	90.00	5.00		450.00		
	Ariyamma house Rd, Anganwadi		1	125.00	4.50		562.50		
	Rathnamma house Rd		1	30.00	2.50		75.00		
	Ramchandrapappa house Rd		1	142.00	5.00		710.00		
							2082.50	6.18	12,869.85
12	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1,P No-174)								

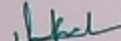
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 3%	107.55							
	Total	3692.55							
	Cum								
	Mylapanahalli								
	Vijayamma house Rd		1	75.00	3.80	0.15	42.75		
	Vijay Kumar house Rd		1	90.00	5.00	0.15	67.50		
	Ariyamma house Rd, Anganwadi		1	125.00	4.50	0.15	84.38		
	Rathnamma house Rd		1	30.00	2.50	0.15	11.25		
	Ramchandrapappa house Rd		1	142.00	5.00	0.15	106.50		
							312.38	3692.55	1153460.31
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to (P.No-176, I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 3%	147.48							
	Total	5063.48							
	Cum								
	Mylapanahalli								
	Vijayamma house Rd		1	75.00	3.80	0.15	42.75		
	Vijay Kumar house Rd		1	90.00	5.00	0.15	67.50		
	Ariyamma house Rd, Anganwadi		1	125.00	4.50	0.15	84.38		
	Rathnamma house Rd		1	30.00	2.50	0.15	11.25		
	Ramchandrapappa house Rd		1	142.00	5.00	0.15	106.50		
							312.38	5063.48	1581704.57
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182, I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
	Sqm								
	Mylapanahalli								
	Vijayamma house Rd		2	75.00	0.10		15.00		
	Vijay Kumar house Rd		2	90.00	0.10		18.00		
	Ariyamma house Rd, Anganwadi		2	120.00	0.10		24.00		
	Ramchandrapappa house Rd		2	142.00	0.10		28.40		
							85.40	441.87	37735.70

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Towards GST 12%	1008858.87
								Tender premium 5%	420357.86
								DPR and PMC Charges 2%	163000.00
								Sub Total	9999373.97
								Utility Shifting, Miscellaneous and Rounding off	626.03
								GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR, Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore

DETAILED ESTIMATE

Work of Works Improvements to roads and drains and construction of
Concrete roads of Sygunayalahalli village limits.

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains and construction of Concrete roads at Synganayakanahalli village Limits.

Est Cost: 100.00 Lakhs

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 3%	3.90							
	Loading and Unloading & Lead	82.60							
	Total	216.50							
	CC Drain	Cum							
	Synganayakanahalli								
	Acharappa house Rd		1	86.00	1.10	0.90	85.14		
	Krishnappa house Rd		2	30.00	1.10	0.90	59.40		
	Yeduyurappa Nagar cross Rd-1		2	175.00	1.10	0.90	346.50		
	Yeduyurappa Nagar cross Rd-2		1	125.00	1.10	0.90	123.75		
	Rain Water Harvesting pits		5	0.31	1.80		2.79		
	Culvert		6	8.00	1.40	0.90	60.48		
							678.06	216.50	146799.99
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	1901.00							
	b) 20mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	2651.00							
	c) Coarse sand.	Cum	5	0.31		0.30	0.47	2651	1,232.72
	Data rate	2651.00							
	d) Fine Sand	Cum	5	0.31		0.20	0.31	2651	821.81
	Data rate	1901.00							
	e) 12.5mm chips	Cum	5	0.31		0.30	0.47	1901	883.97
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		5	1.80			9.00		
							9.00	10822.32	97,400.88
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
	Sqm	5	0.31				1.55	71.03	110.10
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.46Scum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	CC Drain	Cum							
	Synganayakanahalli								
	Acharappa house Rd		1	86.00	1.10	0.15	14.19		
	Krishnappa house Rd		2	30.00	1.10	0.15	9.90		
	Yeduyurappa Nagar cross Rd-1		2	175.00	1.10	0.15	57.75		
	Yeduyurappa Nagar cross Rd-2		1	125.00	1.10	0.15	20.63		
	Culvert		6	8.00	1.40	0.15	10.08		
							112.55	5349.82	602095.49
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 3%	200.10							
	Total	6870.10							
	CC Drain Raft	Cum							
	Synganayakanahalli								
	Acharappa house Rd		1	86.00	0.90	0.15	11.61		
	Krishnappa house Rd		2	30.00	0.90	0.15	8.10		
	Yeduyurappa Nagar cross Rd-1		2	175.00	0.90	0.15	47.25		
	Yeduyurappa Nagar cross Rd-2		1	125.00	0.90	0.15	16.88		
	CC Drain Wall								
	Synganayakanahalli								
	Acharappa house Rd		2	86.00	0.15	0.60	15.48		
	Krishnappa house Rd		4	30.00	0.15	0.60	10.80		
	Yeduyurappa Nagar cross Rd-1		4	175.00	0.15	0.60	63.00		
	Yeduyurappa Nagar cross Rd-2		2	125.00	0.15	0.60	22.50		
							195.62		

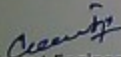
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							24.77		
							220.38	6870.10	1514053.25
7	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	195.62	60.00		11736.90		
	Consider 90kg/Cum for Drain	Tn	1	24.77	90.00		2229.12		
							13966.02		
							13.97	70279.99	981531.75
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Synganayakanahalli								
	Acharappa house Rd		1	86.00	0.90		77.40		
	Krishnappa house Rd		2	30.00	0.90		54.00		
	Yeduyurappa Nagar cross Rd-1		2	175.00	0.90		315.00		
	Yeduyurappa Nagar cross Rd-2		1	125.00	0.90		112.50		
							558.90	2337.00	1306149.30
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	Sqm	6	8.00	1.20		57.60		
							57.60	5418.00	312076.80
10	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unloading & Lead	25.60							
	Total	67.83							
	Cum								
	Synganayakanahalli								
	Laxmi venkateshwara Provision store rd		1	300.00	4.50	0.30	405.00		
	Raju house Rd		1	57.00	4.00	0.30	68.40		
	Muneshwara temple Rd		1	120.00	6.00	0.40	288.00		

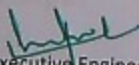
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
11	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 3%	0.18							
	Total	6.18							
		Sqm							
	Synganayakanahalli								
	Laxmi venkateshwara Provision store rd		1	300.00	4.50		1350.00		
	Raju house Rd		1	57.00	4.00		228.00		
	Muneshwara temple Rd		1	120.00	6.00		720.00		
							2298.00	6.18	14,201.64
12	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1,P No-174)								
	Basic rate	3585.00							
	Area Weightage 3%	107.55							
	Total	3692.55							
		Cum							
	Synganayakanahalli								
	Laxmi venkateshwara Provision store rd		1	300.00	4.50	0.15	202.50		
	Raju house Rd		1	57.00	4.00	0.15	34.20		
	Muneshwara temple Rd		1	120.00	6.00	0.20	144.00		
							380.70	3692.55	1405753.79
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 3%	147.48							
	Total	5063.48							

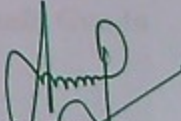
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Synganayakanahalli								
	Laxmi venkateshwara Provision store rd		1	300.00	4.50	0.15	202.50		
	Raju house Rd		1	57.00	4.00	0.15	34.20		
	Muneshwara temple Rd		1	120.00	6.00	0.20	144.00		
							380.70	5063.48	1927666.84
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
	Sqm								
	Synganayakanahalli								
	Laxmi venkateshwara Provision store rd		2	300.00	0.10		60.00		
	Raju house Rd		2	57.00	0.10		11.40		
	Muneshwara temple Rd		2	120.00	0.10		24.00		
							95.40	441.87	42,154.40
	Total Construction Cost								8406935.73
	Towards GST 12%								1008832.29
	Tender premium 5%								420346.79
	DPR and PMC Charges 2%								163000.00
	Sub Total								9999114.80
	Utility Shifting,Miscellaneous and Rounding off								885.20
	GRAND TOTAL								10000000.00

Certificate

1. The workshop was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Development of works at Singanayakanahalli Gundu Thopu

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging technical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED.SR 2019-20								
	Basic Rate	3768.0							
			1				1.00	3768.00	3768.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.) Page no. 46 / I. 9.1 PRED SR 2019-20								
	Basic Rate	347.00							
	0 to 50 m		1	50.00			50.00	347.00	17350.00
	Basic Rate	442.00							
	50 to 100 m		1	50.00			50.00	442.00	22100.00
	Basic Rate	456.00							
	100 to 150 m		1	50.00			50.00	456.00	22800.00
	Basic Rate	536.00							
	150 to 200 m		1	50.00			50.00	536.00	26800.00
	Basic Rate	634.00							
	200 to 250 m		1	50.00			50.00	634.00	31700.00
	Basic Rate	700.00							
	250 to 300 m		1	50.00			50.00	700.00	35000.00
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED III NO 84								
		Rmtr	1	50.00			50.00	1325.00	66250.00
4	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (P. No.92/I. No. 13.15 KPWD SR 2018-19)								
	Basic rate	388.00							
	Area Weightage 3%	11.64							
	Total	399.64							
		mtr	1	280.00			280.00	399.64	111899.20
5	Providing 250mm dia PVC Pipe BWSSB SR 17-18 PNO 133 SL NO 1.11								
		Rmtr	1	12.00					

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
7	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor conforming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. P. No. 7/ I No. (2.6.4) 3cx 6.0 Sqm KPWD Electrical SR 2019-20	Mtr	1	570.00			570.00	205.00	116850.00
8	Atalanta,Suguna,CRI KIRLOSKER AND other equipment pumps 15.00 HP/11KW(30 Stage)P. No. XLII I No.43) (K.P.W.D SR 2018-19)	Nos	1				1.00	63498.00	63498.00
9	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P No.40, I No. 6.1) KPWD Electrical SR 2019-20	NO	1				1.00	2999.70	2999.70
10	Supplying and Fixing 20"x20"x2.5"polished wood board made up not less than 15mm thick plank with front plank one end providing for olding at other end fixing the same to the valve using tapered bolts and nuts, (P No. 24 No.5.6.6 KPWD Electrical SR 2019-20)	Each	1				1.00	292.00	292.00
11	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel, stirp (2CX 10Sqmm.mm wire armoured) confirming IS 3975:1990(no.of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1:1998 and confirming to GTP of group.A.4 Core 16Sqmm.P No.40/ I No.6.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2019-20	Mtr	1	30.00			30.00	150.00	4500.00
12	Labour charges for laying of 1.1 K.V class UG cable, in existing trench GI Pipe / stoneware pipe /on wall/on poles as required In existing trencg/duct 6 Sqmm to 16 Sqmm)P No. 41 / I No. 6.5.1 KPWD Electrical SR 2019-20	Mtr	1	25.00			25.00	11.88	297.00
13	Supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps (P No. 44 / I No. 5.7.3 KPWD Electrical SR 2019-20)	Each	1				1.00	227.00	227.00
14	Providing and fixing in position 50mm nominal bore non-return valve horizontal type of approved make Including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page No.95 Item No. 13.62 / PWD SR 2018-19)	Basic rate	1269.00						
	Area Weightage 3%	38.07							
	Total	1307.07							
		Nos	1				1.00	1307.07	1307.07
15	Supplying and fixing manlature circuit breakers on existing MCB Distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN (P. No. 27 I No.5.17.9) KPWD Electrical SR 2019-20	Each	1				1.00	2397.00	2397.00

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
16	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (P. No.6/ I No 2.3 PWD SR 2018-19)								
	Basic rate	299.00							
	Area Weightage 3%	8.97							
	Total	307.97							
	Cum	1	150.00	0.60	0.70	63.00	307.97	19402.11	
17	Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commissioning including loading and un loading at both destinations and cuts of pipes wherever necessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approval type with all labour with all lead and lift including encasing the pipe around to adepth of not less then 15cms with soft gravel or selected earth available from the excavation etc., completed and giving necessary hydraulic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No.133 I No 1.4 BWSSB SR 2018-19) 63mm outer dia, 6kg/sqcm & class 5								
	Mtr	1	150.00				150.00	122.00	18300.00
18	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. includingcost of all labour complete as per specifications. P. No. 7.1/ I No. (2.11) KPWD SR 2018-19								
	Basic rate	121.00							
	Area Weightage 3%	3.63							
	Total	124.63							
	Cum	1	150.00	0.60	0.70	63.00	124.63	7851.69	
19	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 12.5 HP upto 25 HP (P No. 24 / I No.5.2.2 KPWD Electrical SR 2019-20)								
	Nos	1					1.00	8000.00	8000.00
20	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned,including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. S.R Page no 5, item no 18.16 By Mechanical Means:B. In area of thorny jungle								
	Ha	1	100.00	68.00			6800.00		
							6800.00		
							0.68	23594.21	16044.06
	Basic Rate:	22907.00							
	Area Weightage @ 3%	687.21							
	Total	23594.21							
21	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after								

No	Length	Width	Depth	Qty	Rate	Amount
1	100.00	0.60	0.60	36.00		
				42.27	216.50	9150.81

all types of soil by mechanical means including cutting and
slopes, in accordance with requirements of lines, grades
a lead of 1.00 km and complete as per specifications MORTH
loading and unloading with 10km lead= (1 No-19.14,P No-

1	100.00	68.00	0.45	3060.00		
				3060.00	67.83	207559.80
41.00						
1.23						
25.60						
67.83						

bedding with granite / trap broken metal 100mm. and down size,
packing, ramming, watering, including cost of all materials and
as per specifications. specification. No. KBS

Cum	8	2.10	1.2	0.20	4.03		
					4.03	2501.87	10087.54
2429.00							
72.87							
2501.87							

plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with
granite metal coarse aggregate @ 0.892cum and fine aggregates @
thin mixed, concrete laid in layers not exceeding 15 cms, thick well
with, cost of all materials, labour HOM of machinery, curing complete as

Cum	8	2.10	1.20	0.15	3.02		
	1	100.00	0.60	0.15	9.00		
	1	20.89		0.20	4.18		
	10	2.00	1.50	0.15	4.50		
					20.70	5349.82	110751.97
5194.00							
155.82							
5349.82							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
	Gazebow Wall		16	2.1		0.75	25.20		
	Basic Rate:						46.09	2307.20	106338.85
	Area Weightage @ 3%	2240.00							
	Total	67.20							
		2307.20							
29	Code No. 2067 MS pipes of 80mm to 100mm								
	S.R.page XII item 298								
		Kgs					500.00	38.41	19204.35
	Basic Rate:	37.29							
	Area Weightage @ 3%	1.12							
	Total	38.41							
30	Code No. 0154 G.I. Pipe 50mm dia B Class								
	S.R.page XIX item 499								
		mtr	4.00	5.00			20.00		
			8.00	3.50			28.00		
							48.00	288.05	13826.39
	Basic Rate:	279.66							
	Area Weightage @ 3%	8.39							
	Total	288.05							
31	Code No. 0770 M S Flats								
	S.R.page IX item 233	Tn					0.50		
							0.50	34915.26	17457.63
	Basic Rate:	33898.31							
	Area Weightage @ 3%	1016.95							
	Total	34915.26							
32	Code No. 2091 M.S Tube								
	S.R.page XII item 301	mtr	18	8		2	288.00	226.95	65361.66
	Basic Rate:	220.34							
	Area Weightage @ 3%	6.61							
	Total	226.95							
33	Supplying and fixing new Mangalore tiles on existing reepers. (P.No.267, I.No.37.9 of PWD SR 2018-19)								
		Sqm	8.00	4.20			33.600	419.21	14085.46
	Basic Rate:	407.00							
	Area Weightage @ 3%	12.21							
	Total	419.21							
34	Providing Mangalore Ridge tiles set in C.M. 1:2 and pointed with C.M. 1:2. (P.No.255, I.No.37.7 of PWD SR 2018-19)								
		Sqm	8.00	4.20			33.600	210.12	7060.03
	Basic Rate:	204.00							
	Area Weightage @ 3%	6.12							
	Total								

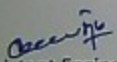
Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
35	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) . (P.No.148, I.No.19.60 of PWD SR 2018-19)								
	Gazebo	Cum	1	20.89		0.40	8.36		
	Full area levelling	Cum	1	100.00	68.00	0.30	2040.00		
	Basic Rate:	325.00					2048.36	334.75	685687.17
	Area Weightage @ 3%	9.75							
	Total	334.75							
36	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No-266,I No-37.2)								
	Front Fencing	mtr	48	2.50			120.00		
	Basic Rate:	859.00					120.00	884.77	106172.40
	Area Weightage @ 3%	25.77							
	Total	884.77							
37	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No-266,I No-37.3)								
	Front Fencing	Sqm	1	96.00		1.80	172.80		
	Basic Rate:	715.00					172.80	736.45	127258.56
	Area Weightage @ 3%	21.45							
	Total	736.45							
38	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint(P.No-266,I No-37.4)								
	Front Fencing	mtr	3	96.00			288.00		
	Basic Rate:	408.00					288.00	420.24	121029.12
	Area Weightage @ 3%	12.24							
	Total	420.24							

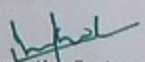
Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
39	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (P.No-266, I No-7.37)								
	Gate	Sqm	1	4.00		2.00	8.00		
	Basic Rate:	3012.00					8.00	3102.36	24818.88
	Area Weightage @ 3%	90.36							
	Total	3102.36							
40	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers , using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103, I No-14.6), 60mm thick								
	Pathway	Sqm	1	308.00		2.00	616.00		
	Basic Rate:	1053.00					616.00	1084.59	668107.44
	Area Weightage @ 3%	31.59							
	Total	1084.59							
41	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30)								
	Pathway	Nos	2	308.00			616.00		
	For Bench platform		10	5.00			50.00		
							666.00		
							1480.00	420.24	621955.20
	Basic Rate:	408.00							
	Area Weightage @ 3%	12.24							
	Total	420.24							
42	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRB M800-6. (P.No.180, I.No.24.1 of PW, P&I WTD SR 2018-19)								
	Pathway	Nos	2	308.00		0.40	246.40		
	For Bench platform		10	5.00		0.40	20.00		
							266.40	82.40	21951.36
		80.00							

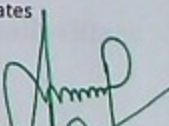
Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
	Total	82.40							
43	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, mortar, including cutting, gridding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No-112, I No-14.62)								
		Sqm							
	For Bench platform		10	2.00	1.50		30.00		
							30.00	1268.96	38068.80
	Basic Rate:	1232.00							
	Area Weightage @ 3%	36.96							
	Total	1268.96							
44	Executive Bench- Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
		Each	12				12.00		
							12.00	18200.00	218400.00
	Data Rate	16250.00							
	Deduct 12% GST	1950.00							
	Total	18200.00							
45	BESCOM Deposit Charges	Nos	1				1.00	14000.00	14000.00
Total Construction Cost									4202204.86
Towards GST 12%									504264.58
Tender premium 5%									210110.24
DPR and PMC Charges 2%									83,000.00
Sub Total									4999579.68
Utility Shifting, Miscellaneous and Rounding off									420.32
GRAND TOTAL									5000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR, Bangalore circle for year 2018-2019, issue rates dated 21-10-2019, PRED, BWSSB, KPWD Electrical SR for year 2018-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer,


Executive Engineer,
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains at Honnenahalli village Limits .

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Est Cost: 100.00 Lakhs	
								Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 3%	3.90							
	Loading and Unloading & Lead	82.60							
	Total	216.50							
	Cum								
	CC Drain								
	Honnenahalli								
	Mn Rd		2	140.00	1.10	1.00	308.00		
	Behind Temple		1	75.00	1.10	1.00	82.50		
	Forest Rd Right side		1	90.00	1.10	1.00	99.00		
	Honnenahalli Mn Rd left side		1	250.00	1.10	1.00	275.00		
	Rain Water Harvesting pits		5	0.31		1.80	2.79		
	Culvert		5	10.00	1.80	0.90	81.00		
							848.29	216.50	183654.79
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	1901.00							
	b) 20mm Jelly	Cum	5	0.31		0.40	0.62	1901	1,178.62
	Data rate	2651.00							
	c) Coarse sand.	Cum	5	0.31		0.30	0.47	2651	1,232.72
	Data rate	2651.00							
	d) Fine Sand	Cum	5	0.31		0.20	0.31	2651	821.81
	Data rate	1901.00							
	e) 12.5mm chips	Cum	5	0.31		0.30	0.47	1901	883.97
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		5	1.80			9.00		
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate						9.00	10822.32	97,400.88
	Data rate	71.03							
	Sqm	5		0.31			1.55	71.03	110.10
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	Cum								
	CC Drain								
	Honnenahalli								
	Mn Rd		2	140.00	1.10	0.15	46.20		
	Behind Temple		1	75.00	1.10	0.15	12.38		
	Forest Rd Right side		1	90.00	1.10	0.15	14.85		
	Honnenahalli Mn Rd left side		1	250.00	1.10	0.15	41.25		
	Culvert		5	10.00	1.80	0.15	13.50		
							128.18	5349.82	685713.18
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 3%	200.10							
	Total	6870.10							
	Cum								
	CC Drain Raft								
	Honnenahalli								
	Mn Rd		2	140.00	0.90	0.15	37.80		
	Behind Temple		1	75.00	0.90	0.15	10.13		
	Forest Rd Right side		1	90.00	0.90	0.15	12.15		
	Honnenahalli Mn Rd left side		1	250.00	0.90	0.15	33.75		
	CC Drain Wall								
	Honnenahalli								
	Mn Rd		4	140.00	0.15	0.60	50.40		
	Behind Temple		2	75.00	0.15	0.60	13.50		
	Forest Rd Right side		2	90.00	0.15	0.60	16.20		
	Honnenahalli Mn Rd left side		2	250.00	0.15	0.60	45.00		
							218.93		

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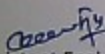
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	408.00							
	Area Weightage 3%	12.24							
	Total	420.24							
	Nos								
	Honnenahalli								
	Mn Rd		2	140.00			280.00		
							280.00		
							622.00	420.24	261389.28
12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-180,I No-24.1)								
	Basic rate	80.00							
	Area Weightage 3%	2.40							
	Total	82.40							
	Sqm								
	Honnenahalli								
	Mn Rd		2	140.00	0.40		112.00		
							112.00	82.40	9,228.80
13	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification No.301 Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unloading & Lead	25.60							
	Total	67.83							
	Cum								
	Honnenahalli								
	Mn Rd		1	150.00	5.00	0.30	225.00		
	Krishnappa house Rd		1	50.00	4.50	0.30	67.50		
	Temple Front		1	30.00	4.00	0.30	36.00		
	Kamamma house		1	29.00	4.50	0.30	39.15		
	Forest Rd Right side		1	90.00	6.50	0.30	175.50		
							543.15	67.83	36,841.86
14	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 3%	0.18							
	Total	6.18							
	Sqm								
	Honnenahalli								
	Mn Rd		1	150.00	5.00		750.00		
	Krishnappa house Rd		1	50.00	4.50		225.00		
	Temple Front		1	30.00	4.00		120.00		
	Kamamma house		1	29.00	4.50		130.50		
	Forest Rd Right side		1	90.00	6.50		585.00		

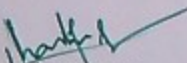
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
15	KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1, P No-174)								
	Basic rate	3585.00							
	Area Weightage 3%	107.55							
	Total	3692.55							
	Cum								
	Honnenahalli								
	Mn Rd		1	150.00	5.00	0.15	112.50		
	Krishnappa house Rd		1	50.00	4.50	0.15	33.75		
	Temple Front		1	30.00	4.00	0.15	18.00		
	Kamalamma house		1	29.00	4.50	0.15	19.58		
	Forest Rd Right side		1	90.00	6.50	0.15	87.75		
							271.58	3692.55	1002804.27
16	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to (P.No-176, I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 3%	147.48							
	Total	5063.48							
	Cum								
	Honnenahalli								
	Mn Rd		1	150.00	5.00	0.15	112.50		
	Krishnappa house Rd		1	50.00	4.50	0.15	33.75		
	Temple Front		1	30.00	4.00	0.15	18.00		
	Kamalamma house		1	29.00	4.50	0.15	19.58		
	Forest Rd Right side		1	90.00	6.50	0.15	87.75		
							271.58	5063.48	1375114.58

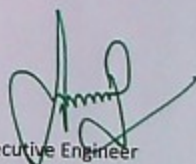
SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
		Sqm							
	Honnenahalli								
	Mn Rd		2	150.00	0.10		30.00		
	Krishnappa house Rd		2	50.00	0.10		10.00		
	Kamamma house		2	29.00	0.10		5.80		
	Forest Rd Right side		2	90.00	0.10		18.00		
							63.80	441.87	28,191.31
	Total Construction Cost								8403575.34
	Towards GST 12%								1008429.04
	Tender premium 5%								420178.77
	DPR and PMC Charges 2%								167000.00
	Sub Total								9999183.15
	Utility Shifting,Miscellaneous and Rounding off								816.85
	GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Deduct 12% GST	1298.68							
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		5	1.80			9.00		
							9.00	10822.32	97,400.88
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
		Sqm	5	0.31			1.55	71.03	110.10
5	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 (P.No-7,I No-2.15)								
	Basic rate	2429.00							
	Area Weightage 3%	72.87							
	Total	2501.87							
	Cum								
	CC Drain								
	Ramgondanahalli								
	Lead off Drain		1	200.00	1.60	0.20	64.00		
							64.00	2501.87	160119.68
6	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	Cum								
	CC Drain								
	Ramgondanahalli								
	Mn Rd LHS		1	87.00	1.10	0.15	14.36		
	Chandrappa house Rd		1	80.00	1.00	0.15	12.00		
	Balyanna house Rd		1	70.00	1.10	0.15	11.55		
	Escorts layout Rd		1	45.00	1.10	0.15	7.43		
	Aaramb Kids Maregowda house Rd		1	202.00	1.10	0.15	33.33		
	Muniyappa house Rd		1	120.00	1.10	0.15	19.80		
	Lead off Drain		1	200.00	1.60	0.15	48.00		
	Culvert		6	8.00	1.40	0.15	10.08		
							156.54	5349.82	837460.82
7	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							

SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Ramgondanahalli								
	Mn Rd LHS								
	Chandrappa house Rd		1	87.00	0.90	0.15	11.75		
	Baiyanna house Rd		1	80.00	0.75	0.15	9.00		
	Escorts layout Rd		1	70.00	0.90	0.15	9.45		
	Aaramb Kids Maregowda house Rd		1	45.00	0.90	0.15	6.08		
	Muniyappa house Rd		1	202.00	0.90	0.15	27.27		
	Lead off Drain		1	120.00	0.90	0.15	16.20		
	CC Drain Wall		1	200.00	1.40	0.20	56.00		
	Ramgondanahalli								
	Mn Rd LHS								
	Chandrappa house Rd		2	87.00	0.15	0.90	23.49		
	Baiyanna house Rd		2	80.00	0.15	0.60	14.40		
	Escorts layout Rd		2	70.00	0.15	0.60	12.60		
	Aaramb Kids Maregowda house Rd		2	45.00	0.15	0.60	8.10		
	Muniyappa house Rd		2	202.00	0.15	0.60	36.36		
	Lead off Drain		2	120.00	0.15	0.60	21.60		
			2	200.00	0.20	1.50	120.00		
	Culvert Raft						372.29		
	Culvert Wall		6	8.00	1.20	0.20	11.52		
			12	8.00	0.23	0.60	13.25		
							24.77		
							397.06	6870.10	2727828.17
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2, P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	372.29	60.00		22337.40		
	Consider 90kg/Cum for Drain	Tn	1	24.77	90.00		2229.12		
							24566.52		
							24.57	70279.99	1726534.78
9	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272, I No-37.66 of PWD BCSR 2018-19),								
	Basic rate	1081.00							
	Area Weightage 3%	32.43							
	Total	1113.43							
	CC Drain Top Covering Slab	m							
	Ramgondanahalli		1	70.00			70.00		
	Baiyanna house Rd						70.00		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Ramgondanahalli								
	Mn Rd LHS		1	87.00	0.90		78.30		
	Balyanna house Rd		1	70.00	0.90		63.00		
	Escorts layout Rd		1	45.00	0.90		40.50		
	Muniyappa house Rd		1	120.00	0.90		108.00		
	Aaramb Kids Maregowda house Rd		1	202.00	0.90		181.80		
							471.60	2337.00	1102129.20
11	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer Incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	Sqm	6	8.00	1.20		57.60		
							57.60	5418.00	312076.80
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301. Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unlodng & Lead	25.60							
	Total	67.83							
		Cum							
	Ramgondanahalli								
	Escorts layout Rd		1	56.00	4.50	0.30	75.60		
	Narasimhamurthy to Kempanna house Rd		1	78.00	3.00	0.30	70.20		
							145.80	67.83	9,889.61
13	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140) Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)								
	Basic rate	899.00							
	Area Weightage 3%	26.97							
	Loading and Unlodng & Lead	25.60							
	Total	951.57							
		Cum							
	Ramgondanahalli								
	Chandrappa house Rd		1	80.00	4.30	0.20	68.80		
	Somashekar house Rd		1	35.00	4.00	0.20	28.00		
	Balyanna house Rd		1	167.00	4.40	0.20	146.96		
							243.76	951.57	231954.70
	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression								

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 3%	0.18							
	Total	6.18							
		Sqm							
	Ramgondanahalli								
	Chandrappa house Rd		1	80.00	4.30		344.00		
	Somashekar house Rd		1	35.00	4.00		140.00		
	Baiyanna house Rd		1	167.00	4.40		734.80		
	Escorts layout Rd		1	56.00	4.50		252.00		
	Narasimhamurthy to Kempanna house Rd		1	78.00	3.00		234.00		
							1704.80	6.18	10,535.66

15 KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1, P No-174)

	Basic rate	3585.00							
	Area Weightage 3%	107.55							
	Total	3692.55							
		Cum							
	Ramgondanahalli								
	Chandrappa house Rd		1	80.00	4.30	0.15	51.60		
	Somashekar house Rd		1	35.00	4.00	0.15	21.00		
	Baiyanna house Rd		1	167.00	4.40	0.15	110.22		
	Escorts layout Rd		1	56.00	4.50	0.15	37.80		
	Narasimhamurthy to Kempanna house Rd		1	78.00	3.00	0.15	35.10		
							255.72	3692.55	944258.89

16 Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to (P.No-176, I No-22.6.1)

Basic rate	4916.00								
Area Weightage 3%	147.48								
Total	5063.48								

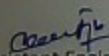
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Chandrappa house Rd		1	80.00	4.30	0.15	51.60		
	Somashekar house Rd		1	35.00	4.00	0.15	21.00		
	Baiyanna house Rd		1	167.00	4.40	0.15	110.22		
	Escorts layout Rd		1	56.00	4.50	0.15	37.80		
	Narasimhamurthy to Kempanna house Rd		1	78.00	3.00	0.15	35.10		
							255.72	5063.48	1294833.11
17	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 3%	56.64							
	Total	1944.64							
	Cum								
	Ramgondanahalli, cut portion								
	Vikram house Rd		1	200.00	0.60	0.225	27.00		
	Aaramb Kids Maregowda house Rd		1	81.00	0.60	0.225	10.94		
	Rajesh house Rd		1	185.00	0.60	0.225	24.98		
							62.91	1944.64	122337.30
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Basic rate	32.00							
	Area Weightage 3%	0.96							
	Total	32.96							
	Sqm								
	Ramgondanahalli								
	Vikram house Rd		1	323.00	4.60		1485.80		
	Aaramb Kids Maregowda house Rd		1	81.00	5.00		405.00		
	Rajesh house Rd		1	240.00	4.50		1080.00		
	Prakash house Rd		1	220.00	5.00		1100.00		
	Prabhakar house Rd		1	270.00	5.00		1350.00		
	Muniyappa house Rd		1	160.00	5.00		800.00		
							6220.80		
	20% Profile correction						933.12		
							933.12	32.96	30,755.64
19	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	7008.00							

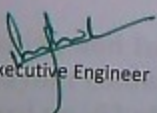
Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Ramgondanahalli								
	Vikram house Rd		1	323.00	4.60	0.05	74.29		
	Aaramb Kids Maregowda house Rd		1	81.00	5.00	0.05	20.25		
	Rajesh house Rd		1	240.00	4.50	0.05	54.00		
	Prakash house Rd		1	220.00	5.00	0.05	55.00		
	Prabhakar house Rd		1	270.00	5.00	0.05	67.50		
	Muniyappa house Rd		1	160.00	5.00	0.05	40.00		
	20% Profile correction						311.04		
							46.66		
							46.66	7218.24	336774.21
20	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Basic rate	12.00							
	Area Weightage 3%	0.36							
	Total	12.36							
		Sqm							
	Ramgondanahalli								
	Vikram house Rd		1	323.00	4.60		1485.80		
	Aaramb Kids Maregowda house Rd		1	81.00	5.00		405.00		
	Rajesh house Rd		1	240.00	4.50		1080.00		
	Prakash house Rd		1	220.00	5.00		1100.00		
	Prabhakar house Rd		1	270.00	5.00		1350.00		
	Muniyappa house Rd		1	160.00	5.00		800.00		
							6220.80	12.36	76,889.09
21	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Basic rate	8207.00							
	Area Weightage 3%	246.21							
	Total	8453.21							
		Cum							
	Ramgondanahalli								
	Vikram house Rd		1	323.00	4.60	0.04	59.43		
	Aaramb Kids Maregowda house Rd		1	81.00	5.00	0.04	16.20		
	Rajesh house Rd		1	240.00	4.50	0.04	43.20		
	Prakash house Rd		1	220.00	5.00	0.04	44.00		
	Prabhakar house Rd		1	270.00	5.00	0.04	54.00		
	Muniyappa house Rd		1	160.00	5.00	0.04	32.00		
							248.83	8453.21	2103429.15

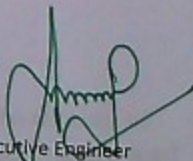
SI No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
22	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 3%	12.87							
	Total	441.87							
		Sqm							
	Ramgondanahalli								
	Vikram house Rd		2	323.00	0.10		64.60		
	Aaramb Kids Maregowda house Rd		2	81.00	0.10		16.20		
	Rajesh house Rd		2	240.00	0.10		48.00		
	Prakash house Rd		2	220.00	0.10		44.00		
	Prabhakar house Rd		2	270.00	0.10		54.00		
	Muniyappa house Rd		2	160.00	0.10		32.00		
	Laxmi venkateshwara Provision store rd		2	300.00	0.10		60.00		
	Raju house Rd		2	57.00	0.10		11.40		
	Muneshwara temple Rd		2	120.00	0.10		24.00		
							354.20	441.87	156510.35
	Total Construction Cost								12609869.19
	Towards GST 12%								1513184.30
	Tender premiun 5%								630493.46
	DPR and PMC Charges 2%								246000.00
	Sub Total								14999546.95
	Utility Shifting,Miscellaneous and Rounding off								453.05
	GRAND TOTAL								15000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates


Assistant Engineer


Asst. Executive Engineer


Executive Engineer
Yelahanka Division
BBMP Bangalore



BRUHAT BANGALORE MAHANAGARA PALIKE

DETAILED ESTIMATE

Name of Work: Providing Asphaltting and Improvements to drains at Kondappa layout Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward no -02 of Yelahanak Sub division

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

**Name of Work: Providing Asphaltting and Improvements to drains at Kondappa layout
Kamakshamma layout Chowdeshwari layout main and cross roads in Chowdeshwari ward
no -02 of Yelahanak Sub division**

Est Cost: 200.00 Lakhs

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	Basic rate	105.00							
	Area Weightage 3%	3.15							
	Total	108.15							
	For Drain Desilt	Sqm							
	Chowdeshawari layout								
	3rd A cross rd, Cross road-2		2	52.00	0.75		78.00		
	near markendeya temple rd		1	42.00	0.75		31.50		
							109.50		
	consider 30% for missing slab						32.85		
							76.65	108.15	8289.70
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.								
	Basic rate	130.00							
	Area Weightage 3%	3.90							
	10km, Loading and Unloading & Lead	82.60							
	Total	216.50							
	CC Drain	Cum							
	Chowdeshawari layout								
	1st cross rd		1	69.00	1.00	0.90	62.10		
	3rd A cross rd		1	74.00	1.00	0.90	66.60		
	cross rd-1		1	62.00	1.00	1.00	62.00		
	6th cross rd		2	32.00	1.00	1.00	64.00		
			1	12.00	1.00	1.00	12.00		
	Kondappa layout								
	near Jnanabharathi public school		1	41.00	1.00	1.00	41.00		
	opposite to Jnanabharathi public school								
	cross rd-1		1	37.00	1.00	1.00	37.00		
	cross rd-2		2	21.00	1.00	1.00	42.00		
	29th cross rd		1	100.00	1.10	1.00	110.00		
	From 19th cross rd to 25th cross rd		1	172.00	1.10	1.00	189.20		
	Cross Rd		1	134.00	1.10	1.00	147.40		
	For Drain Desilt								
	Chowdeshawari layout								
	3rd A cross rd, Cross road-2		2	52.00	0.45	0.50	23.40		
	near markendeya temple rd		1	42.00	0.45	0.50	9.45		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Culverts		12	7.00	1.50	0.90	113.40		
							987.94	216.50	213888.58
3	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00							
	a) 40mm Jelly	Cum	6	0.31		0.40	0.74	1901	1,414.34
	Data rate	1901.00							
	b) 20mm Jelly	Cum	6	0.31		0.40	0.74	1901	1,414.34
	Data rate	2651.00							
	c) Coarse sand,	Cum	6	0.31		0.30	0.56	2651	1,479.26
	Data rate	2651.00							
	d) Fine Sand	Cum	6	0.31		0.20	0.37	2651	986.17
	Data rate	1901.00							
	e) 12.5mm chips	Cum	6	0.31		0.30	0.56	1901	1,060.76
4	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
	Rmt								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,		6	1.80			10.80		
							10.80	10822.32	116881.06
5	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03							
	Sqm	6	0.31				1.86	71.03	132.12
6	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 3%	155.82							
	Total	5349.82							
	CC Drain	Cum							
	Chowdeshawari layout		1	69.00	1.00	0.15	10.35		
	1st cross rd		1	74.00	1.00	0.15	11.10		
	2nd cross rd		1	62.00	1.00	0.15	9.30		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Kondappa layout						0.00		
	near Jnanabharathi public school		1	41.00	1.00	0.15	6.15		
	opposite to Jnanabharathi public school						0.00		
	cross rd-1		1	37.00	1.00	0.15	5.55		
	cross rd-2		2	21.00	1.00	0.15	6.30		
	29th cross rd		1	100.00	1.10	0.15	16.50		
	From 19th cross rd to 25th cross rd		1	172.00	1.10	0.15	28.38		
	Cross Rd		1	134.00	1.10	0.15	22.11		
	Culverts		12	7.00	1.50	0.15	18.90		
							146.04	5349.82	781287.71

7 Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)

	Basic rate	6670.00							
	Area Weightage 3%	200.10							
	Total	6870.10							
	Cum								
	CC Drain Raft								
	Chowdeshawari layout								
	1st cross rd		1	69.00	0.75	0.15	7.76		
	3rd A cross rd		1	74.00	0.75	0.15	8.33		
	cross rd-1		1	62.00	0.75	0.15	6.98		
	6th cross rd		2	32.00	0.75	0.15	7.20		
			1	12.00	0.75	0.15	1.35		
	Kondappa layout								
	near Jnanabharathi public school		1	41.00	0.75	0.15	4.61		
	opposite to Jnanabharathi public school								
	cross rd-1		1	37.00	0.75	0.15	4.16		
	cross rd-2		2	21.00	0.75	0.15	4.73		
	29th cross rd		1	100.00	0.90	0.15	13.50		
	From 19th cross rd to 25th cross rd		1	172.00	0.90	0.15	23.22		
	Cross Rd		1	134.00	0.90	0.15	18.09		
	CC Drain Wall								
	Chowdeshawari layout								
	1st cross rd		2	69.00	0.15	0.60	12.42		
	3rd A cross rd		2	74.00	0.15	0.60	13.32		
	cross rd-1		2	62.00	0.15	0.60	11.16		
	6th cross rd		4	32.00	0.15	0.60	11.52		
			2	12.00	0.15	0.60	2.16		
	Kondappa layout								
	near Jnanabharathi public school		2	41.00	0.15	0.60	7.38		
	opposite to Jnanabharathi public school								
	cross rd-1		2	37.00	0.15	0.60	6.66		
	cross rd-2		4	21.00	0.15	0.60	7.56		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Culverts						245.18		
	Culverts Wall		12	7.00	1.20	0.23	23.18		
			24	7.00	0.23	0.60	23.18		
							46.37		
							291.55	6870.10	2002981.09
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	Basic rate	68233.00							
	Area Weightage 3%	2046.99							
	Total	70279.99							
	Consider 60kg/Cum for Drain	Tn	1	245.18	60.00		14710.95		
	Consider 90kg/Cum for Drain		1	46.37	90.00		4173.12		
							18884.07		
							18.88	70279.99	1327172.25
9	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machinerles, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272 ,I No-37.66 of PWD BCSR 2018-19),								
	Basic rate	1081.00							
	Area Weightage 3%	32.43							
	Total	1113.43							
	CC Drain Top Covering Slab	m							
	missing/damaged						32.85		
	Chowdeshawari layout								
	1st cross rd		1	69.00			69.00		
	3rd A cross rd		1	74.00			74.00		
	cross rd-1		1	62.00			62.00		
	6th cross rd		2	32.00			64.00		
			1	12.00			12.00		
	Kondappa layout								
	near Jnanabharathi public school		1	41.00			41.00		
	opposite to Jnanabharathi public school								
	cross rd-1		1	37.00			37.00		
	cross rd-2		2	21.00			42.00		
							433.85	1113.43	483061.61
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete. (Data Rate)								
	Data rate	2337.00							
	CC Drain Top Covering Slab	Sqm							
	Chowdeshawari layout		1	100.00	0.90		90.00		
	29th cross rd		1	172.00	0.90		154.80		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
11	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	Sqm	12	7.00	1.20		100.80		
							100.80	5418.00	546134.40
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specification MORTH Specification No.301 Loading and unloading with 10km lead = (I No-19.14, P No-143) 10km lead = (1.28x2x10)								
	Basic rate	41.00							
	Area Weightage 3%	1.23							
	Loading and Unloading & Lead	25.60							
	Total	67.83							
	For CC road	Cum							
	Chowdeshwari Layout								
	6th cross		1	32.00	4.50	0.30	43.20		
	Kondappa Layout								
	16th cross, Cross Rd -1		1	50.00	3.00	0.30	45.00		
	Near Jnanabharathi Public School		1	41.00	9.00	0.30	110.70		
	Opp. To Jnana Bharathi Public School, cross road 2		1	21.00	5.50	0.30	34.65		
							233.55	67.83	15,841.70
13	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202 Loading and unloading with 8km lead = (I No-18.47, P No-140)								
	Basic rate	899.00							
	Area Weightage 3%	26.97							
	Loading and Unloading & Lead	25.60							
	Total	951.57							
	For CC road	Cum							
	Chowdeshwari Layout								
	3rd A cross, Cross Road-1		1	61.00	4.60	0.20	56.12		
	Near Markandaiah temple		1	42.00	3.60	0.20	30.24		
	Kondappa Layout								
	Opp. To Jnana Bharathi Public School, cross road 1		1	62.00	3.70	0.20	45.88		
							132.24	951.57	125835.62
14	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64, P No-147)								
	Basic rate	6.00							
	Area Weightage 3%	0.18							
	Total	6.18							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	3rd A cross, Cross Road-1		1	61.00	4.60		280.60		
	Near Markandaiah temple		1	42.00	3.60		151.20		
	Kondappa Layout								
	Opp. To Jnana Bharathi Public School, cross road 1		1	62.00	3.70		229.40		
	Chowdeshwari Layout								
	6th cross		1	32.00	4.50		144.00		
	Kondappa Layout								
	16th cross, Cross Rd -1		1	50.00	3.00		150.00		
	Near Jnanabharathi Public School		1	41.00	9.00		369.00		
	Opp. To Jnana Bharathi Public School, cross road 2		1	21.00	5.50		115.50		
							1439.70	6.18	8,897.35
15	KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1, P No-174)								
	Basic rate	3585.00							
	Area Weightage 3%	107.55							
	Total	3692.55							
	For CC road	Cum							
	Chowdeshwari Layout								
	6th cross		1	32.00	4.50	0.15	21.60		
	Near Markandaiah temple		1	42.00	3.60	0.15	22.68		
	3rd A cross, Cross Road-1		1	61.00	4.60	0.15	42.09		
	Kondappa Layout								
	16th cross, Cross Rd -1		1	50.00	3.00	0.15	22.50		
	Near Jnanabharathi Public School		1	41.00	9.00	0.15	55.35		
	Opp. To Jnana Bharathi Public School, cross road 1		1	62.00	3.70	0.15	34.41		
	Opp. To Jnana Bharathi Public School, cross road 2		1	21.00	5.50	0.15	17.33		
							215.96	3692.55	797424.64

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
16	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charges of machineries, all lead & lift charges etc., complete as per specifications. (P.No-176, I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 3%	147.48							
	Total	5063.48							
	For CC road	Cum							
	Chowdeshwari Layout								
	6th cross		1	32.00	4.50	0.15	21.60		
	Near Markandaiah temple		1	42.00	3.60	0.15	22.68		
	3rd A cross, Cross Road-1		1	61.00	4.60	0.15	42.09		
	Kondappa Layout								
	16th cross, Cross Rd -1		1	50.00	3.00	0.15	22.50		
	Near Jnanabharathi Public School		1	41.00	9.00	0.15	55.35		
	Opp. To Jnana Bharathi Public School, cross road 1		1	62.00	3.70	0.15	34.41		
	Opp. To Jnana Bharathi Public School, cross road 2		1	21.00	5.50	0.15	17.33		
							215.96	5063.48	1093483.82
	Total Construction Cost								8381606.32
	Towards GST 12%								1005792.76
	Tender premium 5%								419080.32
	DPR and PMC Charges 2%								193000.00
	Sub Total								9999479.39
	Utility Shifting, Miscellaneous and Rounding off								520.61
	GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR, Bangalore circle for year 2018-2019. and Data Rates

Assistant Engineer

Asst. Executive Engineer

Executive Engineer
Yelahanka Division
BBMP Bangalore